

# Aranet Weight sensor



- ① Measures weight changes
- ② High measurement accuracy
- ③ Up to 7 years of battery life
- ④ IP67 casing
- ⑤ Data transmission every 1, 2, 5, 10 minutes



Allows close monitoring of plant growth and development, therefore allowing for more precise optimization of plant environmental conditions.

## Aranet Weight sensor datasheet

|                             |  |  |  |
|-----------------------------|--|--|--|
| Measurements                | Weight   |  |  |
| Line of Sight Range         | 3 km / 1.9 mi  |  |  |
| Operating environment       | Indoor and Outdoor use   |  |  |
| Transmitter power           | 14 dBm   |  |  |
| Frequency                   | Depends on base station instructions   |  |  |
| Measurement range           | 0 - 50 kg  |  | 0 - 100 kg *                                   |
| Measurement accuracy        | ± 0.02% FS (C3 Class Load Cell)  |  |  |
| Measurement resolution      | 1g   |  |  |
| Safe overload               | 150%   |  |  |
| Ultimate overload           | 300%   |  |  |
| Data Transmission           | 1, 2, 5, 10 minutes  |  |  |
| Data Protection             | Data encryption  |  |  |
| Power options               | 1 AA Alkaline battery (Zn/MnO <sub>2</sub> )<br>1 AA Lithium battery (Li/FeS <sub>2</sub> )                        |  |  |
| Battery life @20 °C / 68 °F | Up to 5 years with Alkaline battery<br>Up to 7 years with Lithium battery  |  |  |
| Operating temperature       | -20 °C to 55 °C / -4 °F to 131 °F with Alkaline battery<br>-40 °C to 60 °C / -40 °F to 140 °F with Lithium battery |  |  |
| Operating humidity          | 0% to 100%   |  |  |
| Dimensions                  | Sensor body  | 35 mmØ x 120 mm (1.4"Ø x 4.7")                 | 35 mmØ x 120 mm (1.4"Ø x 4.7")                 |
|                             | Load Cell w hooks  | 51 mm x 150 mm x 15 mm<br>(2.0" x 5.9" x 0.6") | 51 mm x 167 mm x 21 mm<br>(2.0" x 6.6" x 0.8") |
| Weight                      | w Alkaline battery   | 424 g (15.0 oz)                                | 595 g (21.0 oz)                                |
|                             | w Lithium battery  | 416 g (14.7 oz)                                | 587 g (20.7oz)                                 |
| Construction                | ASA Plastic (Sensor body), Alloy steel (Load Cell)   |  |  |
| Protection class            | IP67   |  |  |
| Marking                     | CE, FCC  |  |  |
| Compatible base stations    | Aranet PRO (from v1.4.0)   |  |  |
| Cable length                | 0.2 m (0.65 ft)  |  |  |
| Included                    | 1 AA Alkaline battery, string  |  |  |
| Part number                 | EU   | TDSPSV02.050                                   | TDSPSV02.100                                   |
|                             | NA   | TDSPSVU2.050                                   | TDSPSVU2.100                                   |
|                             | RU   | TDSPSVR2.050                                   | TDSPSVR2.100                                   |

\* Other weight options available on request